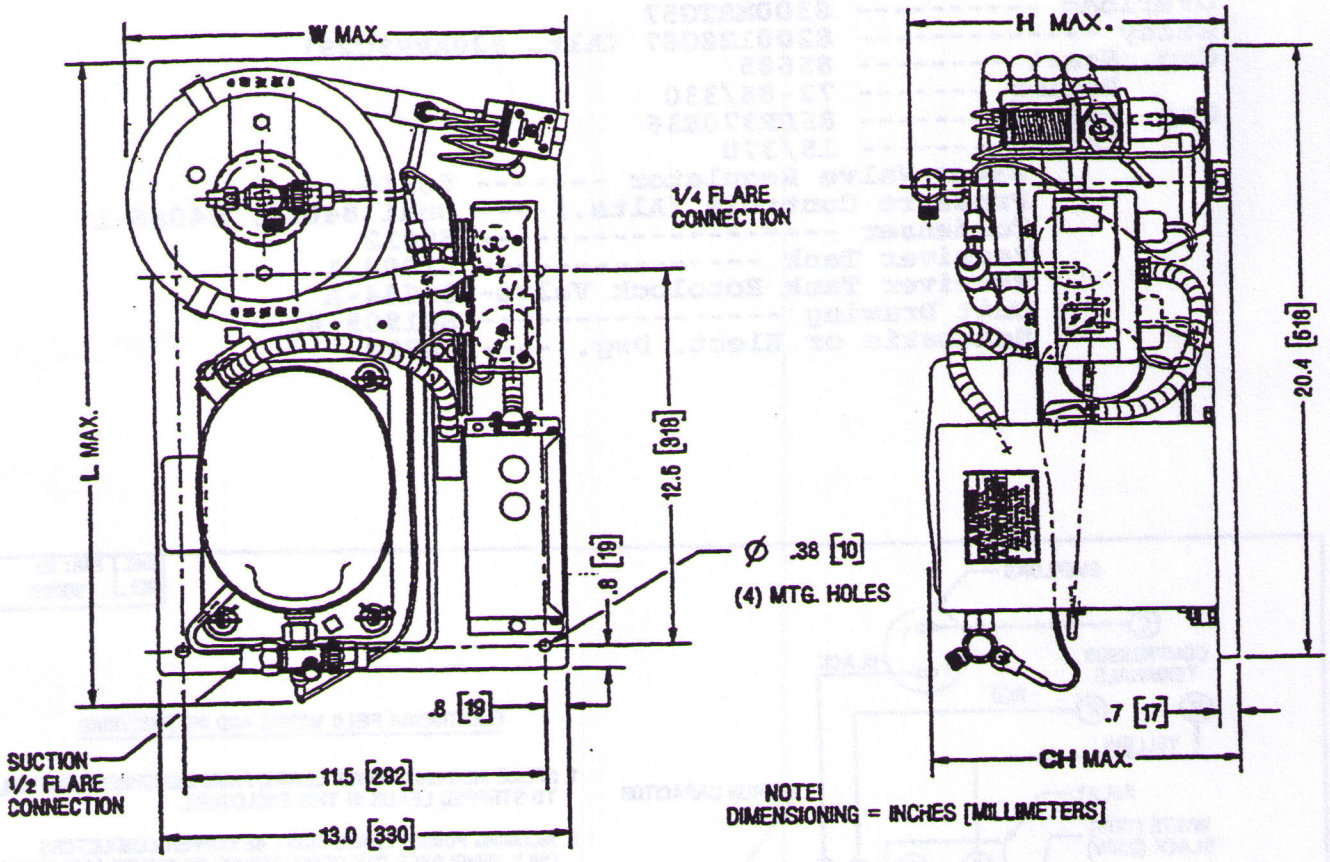
TECUMSEH HERMETIC CONDENSING UNITS

Date: 9-11-95

MODEL AKA9442ZXDXW (Formerly AK9442ZW) R-404A 1/2 HP WATER COOLED



Model	Dimensions				*Line Connection		Pumpdown 90 ° F 90% Full	Oil Chg oz.	Gr. Wt. Lbs.
	L	W	H	CH	Suct.	Liq.			
AKA9442ZXBXW	21.4	14	10.5	10.1	½ F	¼ F	1.7#	17	67

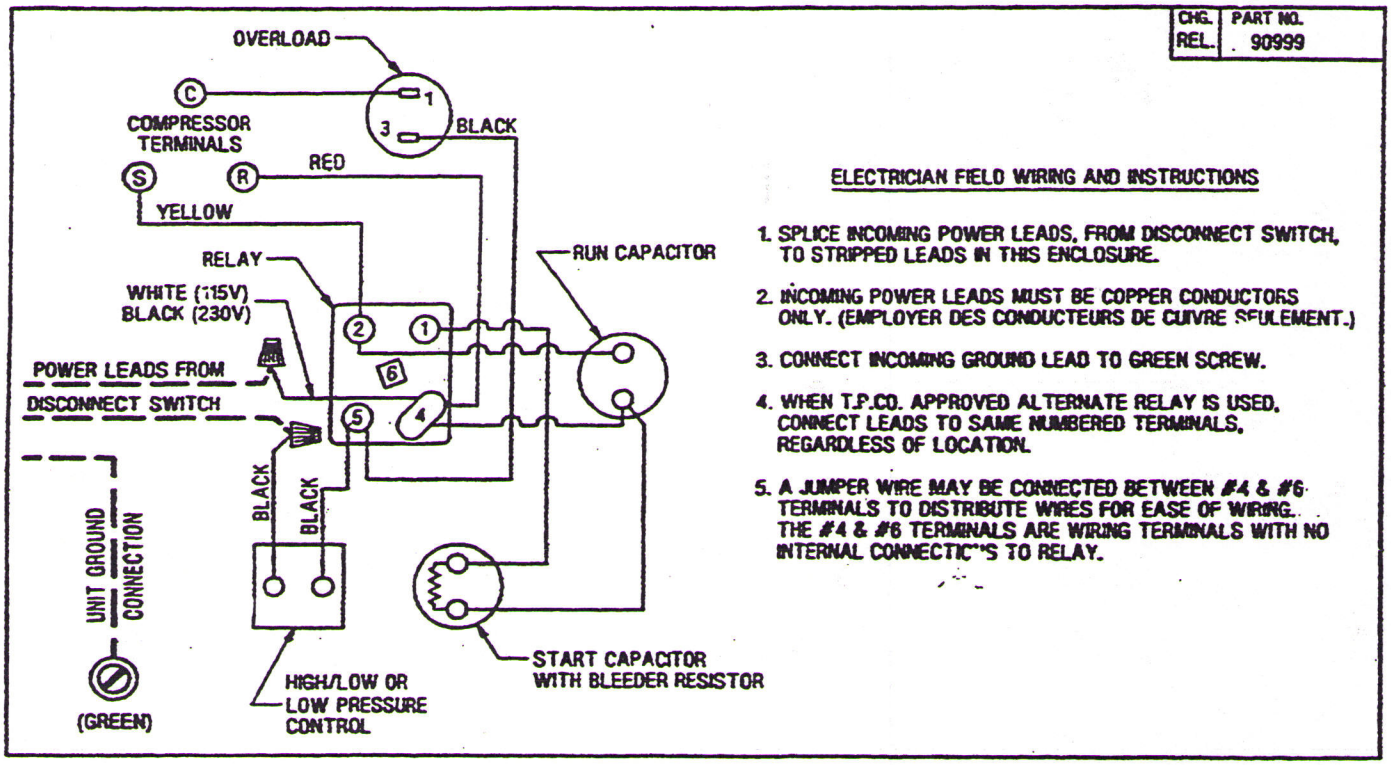
*F=Flare, S=Solder, RF or RS= Rotolock Valve with Flare or Solder Connections
Factory charge: 20 psig nitrogen - **MUST BE EVACUATED**
Use 3/8" min. pipe size. Water valve inlet 3/8" NPT.

PERFORMANCE: Ambient 90°F–Return Gas 40°F–Condenser Water In 75°F–Head 254 psig (saturated liquid)				
Evaporator Temp °F	0	10	20	30
BTU/HR.	2400	3600	5000	6600
Water Usage - gpm	.27	.30	.50	.80
Watts	580	680	780	880

The water valve should be adjusted to maintain a maximum of 95°F water outlet temperature in order to minimize water scaling within the condenser.

Date: 9-8-95

SPECIFICATIONS	AKA9442ZXDXW
Nominal Voltage	230/208-60-1
Unit B/M	2D289-1
Voltage Range	253 to 187
Min. Circuit Ampacity	5.4
Max. Fuse Size (Amps)	15
Compressor Model	AKA9438ZXD
Bill of Material	AK175ET-038-P2
RLA/LRA	4.30/31.0
Cap. Cab. Assy.	AE1197-029A
Overload	8300MRTG57
Relay	8200128G87 (Alt. 820ARR3C29)
Cap. Start	85685
Rating	72-88/330
Cap. Run	85PR370E36
Rating	15/370
Water Valve Regulator	56516
Pressure Controls (Alts.)	Dual 84066, 84066-1
Condenser	50812
Receiver Tank	51080-1
Receiver Tank Rotolock Valve	31584-A
Unit Drawing	SU1909-41
Schematic or Elect. Dwg.	90999


CHG. REL.
PART NO. 90999
OVERLOAD
C
COMPRESSOR TERMINALS
S
R
YELLOW
RED
BLACK
RELAY
WHITE (115V)
BLACK (230V)
POWER LEADS FROM
DISCONNECT SWITCH
UNIT GROUND CONNECTION
(GREEN)
BLACK
BLACK
HIGH/LOW OR LOW PRESSURE CONTROL
RUN CAPACITOR
START CAPACITOR WITH BLEEDER RESISTOR
ELECTRICIAN FIELD WIRING AND INSTRUCTIONS
1. SPLICE INCOMING POWER LEADS, FROM DISCONNECT SWITCH, TO STRIPPED LEADS IN THIS ENCLOSURE.
2. INCOMING POWER LEADS MUST BE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVRE SEULEMENT.)
3. CONNECT INCOMING GROUND LEAD TO GREEN SCREW.
4. WHEN T.P.CO. APPROVED ALTERNATE RELAY IS USED, CONNECT LEADS TO SAME NUMBERED TERMINALS, REGARDLESS OF LOCATION.
5. A JUMPER WIRE MAY BE CONNECTED BETWEEN #4 & #6 TERMINALS TO DISTRIBUTE WIRES FOR EASE OF WIRING. THE #4 & #6 TERMINALS ARE WIRING TERMINALS WITH NO INTERNAL CONNECTIONS TO RELAY.